



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:)	Attorney Docket No. 087522785323
Michael, Jay R. et al.)	
)	
Application No.:)	10/749,008
)	
Filed:)	December 30, 2003
)	
For:)	CHAIR SUPPORT AND FORWARD
)	PASSIVE TILT CAPABILITIES
)	
Examiner:)	Edell, Joseph F.
)	
Art Unit:)	3636
)	
Confirmation No.:)	8391

AMENDMENTS TO THE CLAIMS

Claims 1-14 (Cancelled)

Claim 15 (Currently Amended) A chair having synchronous movement of back and seat assemblies and backward and forward passive tilt capabilities comprising:

a chair having a seat assembly, a back assembly and a frame assembly for supporting said seat and said back assemblies;

a first link operatively connected to said back assembly, to said frame assembly and to said seat assembly;

a first pivot connecting said frame assembly and said first link wherein said first link pivots relative to said frame assembly;

a second pivot connecting said first link and said seat assembly wherein said first link pivots relative to said seat assembly, whereby said second pivot is approximately located beneath a chair occupant's hip joint;

a second link operatively connected to said frame assembly and to a third link;

a third pivot connecting said frame assembly and said second link;

a third link operatively connected to said seat assembly and to said second link;

a fourth pivot connecting said second link and said third link; and

a biasing member mounted to said frame assembly and being deformable;~~The~~

~~chair of claim 1 wherein:~~

said first pivot is located more rearwardly and upwardly than said second, third and fourth pivots;

said second pivot is located more rearwardly and upwardly than said third and fourth pivots; and

said third pivot is located more rearward and upwardly than said fourth pivot.

Claim 16 (Currently Amended) A chair having synchronous movement of back and seat assemblies and backward and forward passive tilt capabilities comprising:

a chair having a seat assembly, a back assembly and a frame assembly for supporting said seat and said back assemblies;

a first link operatively connected to said back assembly, to said frame assembly and to said seat assembly;

a first pivot connecting said frame assembly and said first link wherein said first link pivots relative to said frame assembly;

a second pivot connecting said first link and said seat assembly wherein said first link pivots relative to said seat assembly, whereby said second pivot is approximately located beneath a chair occupant's hip joint;

a second link operatively connected to said frame assembly and to a third link;

a third pivot connecting said frame assembly and said second link;

a third link operatively connected to said seat assembly and to said second link;

a fourth pivot connecting said second link and said third link; and

a biasing member mounted to said frame assembly and being deformable; ~~The~~

~~chair of claim 1 wherein:~~

said first pivot is fixed in position relative to said frame assembly;

said second pivot is movable relative to said frame assembly;

said third pivot is fixed in position relative to said frame assembly;

said fourth pivot is movable relative to said frame assembly;

said first pivot is located more rearwardly and upwardly than said second, third
and fourth pivots;

said second pivot is located more rearwardly and upwardly than said third and
fourth pivots; and

said third pivot is located more rearward and upwardly than said fourth pivot.

Claim 17 (Original) The chair of claim 16 wherein:

from an upright position a weight shift by a chair occupant causes said seat
assembly to tilt downwardly thereby tilting said back assembly forwardly toward said seat
assembly; and

from an upright position a weight shift by a chair occupant causes said back
assembly to tilt rearwardly and said seat assembly to lift.

Claim 18 (Original) The chair of claim 17 wherein:

said seat assembly moves at a lesser rate than said back assembly.

Claim 19 (Original) The chair of claim 17 wherein:

movement of said back assembly causes said first link to move said seat assembly;

movement of said seat assembly pivots said second link; and
pivoting said second link causes said biasing member to deform.

Claim 20 (Original) The chair of claim 19 wherein:

movement of said seat assembly induces stress in said biasing member.

Claim 21 (Original) The chair of claim 20 wherein:

movement of said seat assembly from an upright neutral position induces deformation of said biasing member and a biasing force to return said seat assembly to said upright neutral position.

Claim 22 (Original) The chair of claim 21 wherein:

said first link is connected at a first end portion to said back assembly, at a second end portion to said seat assembly and between said first and second end portions to said center frame; and

said third link is connected at a first end portion to a front portion of said seat assembly and at a second end portion to said second link.

Claims 23-25 (Cancelled)

Claim 26 (Currently Amended) A chair having synchronous movement of back and seat assemblies and backward and forward passive tilt capabilities comprising:

a chair having a seat assembly, a back assembly and a frame assembly for supporting said seat and said back assemblies;

a first link operatively connected to said back assembly, to said frame assembly and to said seat assembly;

a first pivot connecting said frame assembly and said first link wherein said first link pivots relative to said frame assembly;

a second pivot connecting said first link and said seat assembly wherein said first link pivots relative to said seat assembly, whereby said second pivot is approximately located beneath a chair occupant's hip joint;

a second link operatively connected to said frame assembly and to a third link;

a third pivot connecting said frame assembly and said second link;

a third link operatively connected to said seat assembly and to said second link;

a fourth pivot connecting said second link and said third link; and

a biasing member mounted to said frame assembly and being deformable;

wherein from an upright position a weight shift by a chair occupant causes said seat assembly to tilt downwardly thereby tilting said back assembly forwardly toward said seat assembly;

from an upright position a weight shift by a chair occupant causes said back assembly to tilt rearwardly and said seat assembly to lift;

movement of said back assembly causes said first link to move said seat assembly;

movement of said seat assembly pivots said second link;

pivoting said second link causes said biasing member to deform;

movement of said seat assembly induces stress in said biasing member;

movement of said seat assembly from an upright position induces deformation of said biasing member and a biasing force to return said seat assembly to said upright neutral position; ~~The chair of claim 25 wherein:~~

said first pivot is fixed in position relative to said frame assembly;

said second pivot is movable relative to said frame assembly;

said third pivot is fixed in position relative to said frame assembly;

said fourth pivot is movable relative to said frame assembly;

said first pivot is located more rearwardly and upwardly than said second, third
and fourth pivots;

said second pivot is located more rearwardly and upwardly than said third and
fourth pivots; and

said third pivot is located more rearward and upwardly than said fourth pivot.

Claim 27 (Original) The chair of claim 26 wherein:

said first link is connected at a first end portion to said back assembly, at a second
end portion to said seat assembly and between said first and second end portions to said frame
assembly; and

said third link is connected at a first end portion to a front portion of said seat
assembly and at a second end portion to said second link.